

Three-orbital model for Fe-pnictides

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Abstract

We formulate and study the three-orbital model for iron-based superconductors. Results for the band structure, Fermi surface, and the spin susceptibility in both normal and superconducting $s \pm$ states are presented. We also discuss the pairing interaction and show that the dominant part of it should come from the intraorbital scattering. © 2013 Springer Science+Business Media New York.

<http://dx.doi.org/10.1007/s10948-013-2156-x>

Keywords

Fe-based superconductors, Low-energy model, Spin susceptibility